



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D412-702-343
Job Sheet 204453



Part No: D412-702-343

Job Qty: 1 pcs

Part Name: Shoulder Harness, 3-Point Att., Inertia Reel Continuous Belt, 5 Man Fwd



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 12/11/19

Job Tracking No:

Due Date: 12/31/19

DAS
21
9-88

Created By: Marie Lajeunesse

Type: Stock **SOLD**

Description:

Note: DWG DSI9511 REV.A D412-702-2 Rev.B IPP Rev:A new issue DD 10.04.30 verified:EC

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
105	Packaging 1 - Pick Kit	1 pcs	12/31/19		0.00	0.00	Packaging 1 - 1		
							Packaging 1 - 2		
							Packaging 1 - 3 ✓		Oscar
							Packaging 1 - 4		
							Packaging 1 - 5		
							Packaging 1 - 6		
							Packaging 1 - 7		
							Packaging 1 - 8		
							Packaging 1 - 9		
							Packaging 1 - 10		
							Packaging 1 - 11		
							Packaging 1 - 12		
							Packaging 1 - 13		
							Packaging 1 - 14		
							Packaging 1 - 15		
							Packaging 1 - 16		
							Packaging 1 - 17		
							Packaging 1 - 18		
							Packaging 1 - 19		
							Packaging 1 - 20		
							Packaging 1 - 21		
							Packaging 1 - 22		
							Packaging 1 - 23		
							Packaging 1 - 24		
							Packaging 1 - 25		
							Packaging 1 - 26		
							Packaging 1 - 27		
							Packaging 1 - 28		
							Packaging 1 - 29		
							Packaging 1 - 30		
							Packaging 1 - 31		



Dart Aerospace Ltd.
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CANADA
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Container No: S243181



Part: D412-702-343

Job No: 204453

Serial No/Batch: S243181

Revision: A / B

Inspector:

Exp Date:

Instructions: TC STC SH04-7 Issue 3, FAA STC SR01997N

Plex 12/11/19 7:14 AM Dart.lajeunesse.marie

				Packaging 1 - 32	
				Packaging 1 - 33	
				Packaging 1 - 34	
				Packaging 1 - 35	
				Packaging 1 - 36	
110 QC 4	1 pcs	12/31/19	0.00 0.00	QC 4 - 28	
				QC 4 - 58	
				QC 4 - 69	
				QC 4 - 9	
				QC 4 - 46	
				QC 4 - 68	
				QC 4 - 72	
				QC 4 - 74	
				QC 4 - 75	
				QC 4 - 78	
120 Packaging 3-1 - Stock - B4B	1 pcs	12/31/19	0.00 0.00	Packaging 3 - 1 - B4B	
				Packaging 3 - 2 - B4B	
				Packaging 3 - 3 - B4B	
				Packaging 3 - 4 - B4B	
				Packaging 3 - 5 - B4B	
				Packaging 3 - 6 - B4B	
				Packaging 3 - 7 - B4B	
				Packaging 3 - 8 - B4B	
				Packaging 3 - 9 - B4B	
				Packaging 3 - 10 - B4B	
				Packaging 3 - 11 - B4B	
				Packaging 3 - 12 - B4B	
				Packaging 3 - 13 - B4B	
				Packaging 3 - 14 - B4B	
				Packaging 3 - 15 - B4B	
				Packaging 3 - 16 - B4B	
				Packaging 3 - 17 - B4B	
				Packaging 3 - 18 - B4B	
				Packaging 3 - 19 - B4B	
				Packaging 3 - 20 - B4B	
				Packaging 3 - 21 - B4B	
				Packaging 3 - 22 - B4B	
				Packaging 3 - 23 - B4B	
				Packaging 3 - 24 - B4B	
				Packaging 3 - 25 - B4B	
				Packaging 3 - 26 - B4B	
				Packaging 3 - 27 - B4B	
				Packaging 3 - 28 - B4B	
				Packaging 3 - 29 - B4B	
				Packaging 3 - 30 - B4B	
				Packaging 3 - 31 - B4B	
				Packaging 3 - 32 - B4B	
				Packaging 3 - 33 - B4B	
				Packaging 3 - 34 - B4B	
				Packaging 3 - 35 - B4B	
				Packaging 3 - 36 - B4B	
125 DC - 1 - B4B	1 pcs	12/31/19	0.00 0.00	DC - 1 - B4B	
				DC - 2 - B4B	
130 QC 21 - FG	1 pcs	12/31/19	0.00 0.00	QC 21 - FG - 21	
				QC 21 - FG - 70	
				QC 21 - SA - 53	
Part Op 105 - (Pick Kit) Descriptions: 110 - (QC4- 100% Inspect kits for completeness) 120 - (Identify as per dwg & Stock Location: _____) Identify and pack for shipping as per PPP D412-702-343					

DAS
78
9-89

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DEC 24 2019

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DEC 24 2019

DAS
70
9-89

PKG

Location: _____ PPP Rev: _____

125 - (Document Control) Photocopy bluefile & type labels per PPP D412-702-343 CHG001

130 - (QC21- Final Inspection - Work Order Release)

013631

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
AN4-10A	Bolt	4 Ea (4 ea) ✓	105-Packaging 1 - Pick Kit	5144562 ✓
AN4-44A	Bolt	2 Ea (2 ea) ✓	105-Packaging 1 - Pick Kit	5056343 ✓
CR3212-4-04	Cherry Rivet	12 Ea (12 ea) ✓	105-Packaging 1 - Pick Kit	5045672 ✓
D3542-1	Bracket	2 pcs (2 ea) ✓	105-Packaging 1 - Pick Kit	5180465 ✓
D3571-1	Guide	3 pcs (3 ea) ✓	105-Packaging 1 - Pick Kit	5214155 ✓
D3571-3	Guide	2 pcs (2 ea) ✓	105-Packaging 1 - Pick Kit	5181807 ✓
D3578-041	Doubler	6 pcs (6 ea) ✓	105-Packaging 1 - Pick Kit	5223705 ✓
D3610-041	Bracket	2 pcs (2 ea) ✓	105-Packaging 1 - Pick Kit	5182309 ✓
D3618-1	Cap	2 pcs (2 ea) ✓	105-Packaging 1 - Pick Kit	5019119 ✓
D3761-1-041	Hook & Loop Strip	5 pcs (5 ea) ✓	105-Packaging 1 - Pick Kit	5217043 ✓
D412-702-059	Grommet	1 pcs (1 ea) ✓	105-Packaging 1 - Pick Kit	5211399 ✓
D412-702-301	Harness Assembly	1 pcs (1 ea) ✓	105-Packaging 1 - Pick Kit	5225186 ✓
D412-702-303	Harness Assembly	1 pcs (1 ea) ✓	105-Packaging 1 - Pick Kit	5209730 ✓
D412-702-305	Harness Assembly	1 pcs (1 ea) ✓	105-Packaging 1 - Pick Kit	5209774 ✓
D412-702-307	Harness Assembly	1 pcs (1 ea) ✓	105-Packaging 1 - Pick Kit	5240888 ✓
D412-702-309	Harness Assembly	1 pcs (1 ea) ✓	105-Packaging 1 - Pick Kit	5240894 ✓
MS21042L4	Nut	6 Ea (6 ea) ✓	105-Packaging 1 - Pick Kit	5228617 ✓
MS24693-S274	Screw	2 Ea (2 ea) ✓	105-Packaging 1 - Pick Kit	5183298 ✓
MS24694-S56	Screw	3 Ea (3 ea) ✓	105-Packaging 1 - Pick Kit	5104457 ✓
MS24694-S58	Screw	2 Ea (2 ea) ✓	105-Packaging 1 - Pick Kit	5044220 ✓
MS24694-S60	Screw	1 Ea (1 ea) ✓	105-Packaging 1 - Pick Kit	5135046 ✓
NAS1149D0416J	Washer	4 Ea (4 ea) ✓	105-Packaging 1 - Pick Kit	5131511 ✓
NAS1149D0463J	Washer	6 Ea (6 ea) ✓	105-Packaging 1 - Pick Kit	5228798-1 ✓

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
105-Packaging 1 - Pick Kit	AN4-10A	4	27	0
	AN4-44A	2	7	0
	CR3212-4-04	12	414	0
	D3542-1	2	10	0
	D3571-1	3	8	0
	D3571-3	2	12	0
	D3578-041	6	48	0
	D3610-041	2	6	0
	D3618-1	2	82	0
	D3761-1-041	5	21	0
	D412-702-059	1	3	0
	D412-702-301	1	3	0
	D412-702-303	1	3	0
	D412-702-305	1	1	0
	D412-702-307	1	1	0
	D412-702-309	1	1	0
	MS21042L4	6	4,130	0
	MS24693-S274	2	100	0
	MS24694-S56	3	62	0
	MS24694-S58	2	58	0
	MS24694-S60	1	84	0
	NAS1149D0416J	4	1,623	0
	NAS1149D0463J	6	5,289	0

Part Specifications

Specifications could not be found.

Plex 12/11/19 7:14 AM Dart.lajeunesse.marie

Entered:

Date:

WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No.

Route update only



Job: _____		DISPOSITION		DEPARTMENT/PROCESS		MRB (QSI042)			
Part No. _____		Rework ☐ Scrap ☐ Use-as-is ☐		Skid-tube ☐ Machining ☐ Large Fab ☐		Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐			
Date: _____		Sequence #: _____		QTY Affected: _____		Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
Description Work Order Deviation				Disposition					
Completed By				Lead hand / Supervisor					
QC / QA Coordinator									
Root Cause		FAULT CATEGORY							
Operator ☐		Pressure/Forced ☐		Contamination ☐		Power Loss/Surge ☐		Positioned Wrong ☐	
Manufacturing Process ☐		Bending ☐		Misaligned/off center ☐		Folio/Program ☐		Outside Tolerance ☐	
Equip/Tooling ☐		Crushing ☐		BOM/Route ☐		Grain Direction ☐		Drawing ☐	
Handling/Preservation ☐		Cracks ☐		Broken/Damage/Defect ☐		Weld ☐		Finish ☐	
Material ☐		Crimp/Kink/Ripple/Wave/Twist ☐		Incomplete/Unclear Instructions ☐		Wrong Stock Pulled ☐		Part Lost/Missing ☐	
Product Improvement ☐		Marks/Chatter ☐		Drill Holes ☐		Out of Sequence ☐		Misread ☐	
Process Improvement ☐		Mislabeled ☐		Fit/Function ☐		Off-set/Set-up ☐			
Human Factors ☐		Other/Details:							



RELEASED
R 4/3/21 S/M

PPP

Part Number	D412-702-343
Description	5-Man Fwd Facing Shoulder Harness

Box Part Number	BX17	Dimension	17 x 11.5 x 6
Other Packaging	Uline S4817	Dimension	
Logo Decals			

Packaging Instructions and Decal Placement

D412-702-343

Tape box with clear tape and add harness in box. Wrap hardware in foam and add to box. Add paperwork. Add foam to sides and top to prevent movement. Close box using clear tape. Apply label D2729-3 as per instructions in QSI 014.

D2729-4

D2729-3

N/A



Dart Aerospace Ltd.
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CANADA
TEL: 1 613 632-5200

5-MAN FWD FACING SHOULDER HARNESS

P/N: D412-702-343

CHG001

B/N: BXXXXXX

Revision: D
Date: 14.05.16

[Signature]
14/05/22

PARTS LIST

TABLE 2

QTY -341	QTY -343	QTY -345	QTY -347	QTY -349	QTY -351	Part Number	Description
X						D412-702-341	Dart 13-Man 3-Point Shoulder Harness Kit
	X					D412-702-343	Dart 5-Man 3-Point Forward Facing Shoulder Harness Kit
		X				D412-702-345	Dart 4-Man 3-Point Aft Facing Shoulder Harness Kit
			X			D412-702-347	Dart 4-Man 3-Point Side Facing Shoulder Harness Kit
				X		D412-702-349	Dart 1-Man 3-Point Forward Shoulder Harness Kit
					X	D412-702-351	Dart 1-Man 3-Point Shoulder Harness Kit
1	1		1	1		D412-702-059	GROMMET KIT
9	6		4	1	1	D3761-1-041	HOOK AND LOOP STRIP (DSI 9408)
2	1		1			D412-702-301	HARNESS ASSEMBLY (NEW)
1*	1*		1*			D3573-7	ADAPTER
1*	1*		1*			D4088-041	SHOULDER HARNESS (NEW)
4*	4*		4*			MS24693S272	SCREW
4*	4*		4*			AN960JD10LL	WASHER
4*	4*		4*			MS21042L3	NUT
2	1		1			D412-702-303	HARNESS ASSEMBLY (NEW)
1*	1*		1*			D3573-8	ADAPTER
1*	1*		1*			D4088-041	SHOULDER HARNESS (NEW)
4*	4*		4*			MS24693S272	SCREW
4*	4*		4*			AN960JD10LL	WASHER
4*	4*		4*			MS21042L3	NUT
1	1			1		D412-702-305	HARNESS ASSEMBLY (NEW)
1*	1*			1*		D3573-1	ADAPTER
1*	1*			1*		D4088-041	SHOULDER HARNESS (NEW)
4*	4*			4*		MS24693S273	SCREW
4*	4*			4*		AN960JD10LL	WASHER
4*	4*			4*		MS21042L3	NUT
1	1				1	D412-702-307	HARNESS ASSEMBLY (NEW)
1*	1*				1*	D3573-3	ADAPTER
1*	1*				1*	D4088-041	SHOULDER HARNESS (NEW)
4*	4*				4*	MS24693S272	SCREW
4*	4*				4*	AN960JD10LL	WASHER
4*	4*				4*	MS21042L3	NUT
1	1					D412-702-309	HARNESS ASSEMBLY (NEW)
1*	1*					D3573-3	ADAPTER
1*	1*					D4088-041	SHOULDER HARNESS (NEW)
4*	4*					MS24693S272	SCREW
4*	4*					AN960JD10LL	WASHER
4*	4*					MS21042L3	NUT

* denotes that part is included in assembly above

continued next page...

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 10.03.22
CERT. NO.: SH04-7
ISSUE NO.: 3

DESIGN		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN			
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9511	SHEET 3 OF 6
APPROVED		TITLE	SCALE
DE APPR.		NEW SHOULDER HARNESS KITS	NTS
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QTY -341	QTY -343	QTY -345	QTY -347	QTY -349	QTY -351	Part Number	Description
1		1				D412-702-311	HARNESS ASSEMBLY (NEW)
1*		1*				D3570-1	BRACKET
1*		1*				D4088-043	SHOULDER HARNESS (NEW)
4*		4*				MS24694S50	SCREW
4*		4*				AN960JD10L	WASHER
4*		4*				MS21042L3	NUT
1		1				D412-702-313	HARNESS ASSEMBLY (NEW)
1*		1*				D3570-2	BRACKET
1*		1*				D4088-043	SHOULDER HARNESS (NEW)
4*		4*				MS24694S50	SCREW
4*		4*				AN960JD10L	WASHER
4*		4*				MS21042L3	NUT
1			1			D412-702-315	HARNESS ASSEMBLY (NEW)
1*			1*			D3573-5	ADAPTER
1*			1*			D4088-041	SHOULDER HARNESS (NEW)
4*			4*			MS24693S272	SCREW
4*			4*			AN960JD10LL	WASHER
4*			4*			MS21042L3	NUT
1			1			D412-702-317	HARNESS ASSEMBLY (NEW)
1*			1*			D3573-5	ADAPTER
1*			1*			D4088-041	SHOULDER HARNESS (NEW)
4*			4*			MS24693S272	SCREW
4*			4*			AN960JD10LL	WASHER
4*			4*			MS21042L3	NUT
1		1				D412-702-321	HARNESS ASSEMBLY (NEW)
1*		1*				D3570-3	BRACKET
1*		1*				D4088-043	SHOULDER HARNESS (NEW)
4*		4*				MS24694S50	BOLT
4*		4*				AN960JD10L	WASHER
4*		4*				MS21042L3	NUT
1		1				D412-702-323	HARNESS ASSEMBLY (NEW)
1*		1*				D3570-4	BRACKET
1*		1*				D4088-043	SHOULDER HARNESS (NEW)
4*		4*				MS24694S50	BOLT
4*		4*				AN960JD10L	WASHER
4*		4*				MS21042L3	NUT

* denotes that part is included in assembly above

continued next page...

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DESIGN		DART AEROSPACE LTD	
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CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9511	SHEET 4 OF 6
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QTY -341	QTY -343	QTY -345	QTY -347	QTY -349	QTY -351	Part Number	Description
2	2					D3542-1	BRACKET
7	3		4	1		D3571-1	GUIDE
2	2					D3571-3	GUIDE
2		2				D3572-041	GUIDE ASSEMBLY
12	6		6	2		D3578-041	DOUBLER
2	2					D3640-041	BRACKET
2	2					D3618-1	CAP
4	4					AN4-10A	BOLT
2		2				AN4-16A	BOLT
4		4				AN4-25A	BOLT
4		4				AN4-27A	BOLT (DSI 9469)
2	2					AN4-44A	BOLT
2	2					MS24693S274	SCREW
3	3			1		MS24694S56	SCREW
10	2		8			MS24694S58	SCREW
1	1			1		MS24694S60	SCREW
26	6	20				AN960JD416	WASHER
4	4					AN960JD416L	WASHER
12	6	6				MS21042L4	NUT
24	12		12	4		CR3212-4-4	RIVET

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DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED
BY: 
D. SHEPHERD (DE # 02)

DATE: 10.03.22
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DESIGN	90	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
DRAWN	90	
CHECKED		DRAWING NO. REV. A
MFG. APPR.	N/A	DSI 9511 SHEET 5 OF 6
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Change Record

Part Number DH12-702-343
Description 5 MAN SHOULDER HARNESS, 3 POINT, FWD FACING

Page 1 of 1[illegible]